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S1	13040	(dom "document object model")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/08 12:59
S2	355	S1 & statistics	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/08 13:00
S3	176	S2 & url	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/08 13:06
S4	111	S3 & (graph chart)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/08 13:45
S5	4	"web statistic$"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/08 15:02
S6	1	sd-graph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/08 15:03
S7	22	"web statistics"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/08 15:07
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1 Scaling question answering to the web
Cody Kwok, Oren Etzioni, Daniel S. Weld
July 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(452.33 KB)   Additional Information: full citation, abstract, references, index terms

The wealth of information on the web makes it an attractive resource for seeking quick answers to simple, factual questions such as "e;who was the first American in space?"e; or "e;what is the second tallest mountain in the world?"e; Yet today's most advanced web search services (e.g., Google and AskJeeves) make it surprisingly tedious to locate answers to such questions. In this paper, we extend question-answering techniques, first studied in the information retrieval literature ...

Keywords: answer extraction, answer selection, natural language processing, query formulation, search engines

2 Scaling question answering to the Web
Cody C. T. Kwok, Oren Etzioni, Daniel S. Weld
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(294.27 KB)   Additional Information: full citation, references, citings, index terms

3 Adapting content to mobile devices: DOM-based content extraction of HTML documents
Suhit Gupta, Gail Kaiser, David Neistadt, Peter Grimm
May 2003 **Proceedings of the 12th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(296.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

Web pages often contain clutter (such as pop-up ads, unnecessary images and extraneous links) around the body of an article that distracts a user from actual content. Extraction of "useful and relevant" content from web pages has many applications, including cell phone and PDA browsing, speech rendering for the visually impaired, and

text summarization. Most approaches to removing clutter or making content more readable involve changing font size or removing HTML and data components such as imag ...

Keywords: DOM trees, HTML documents, accessibility, content extraction, reformatting, speech rendering

4 Integrating the document object model with hyperlinks for enhanced topic distillation and information extraction
Soumen Chakrabarti
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(369.63 KB)　Additional Information: full citation, references, citings, index terms

Keywords: document object model, minimum description length principle, segmentation, topic distillation

5 Web mining, tools, and performance evaluation: Web classification using support vector machine
Aixin Sun, Ee-Peng Lim, Wee-Keong Ng
November 2002 **Proceedings of the 4th international workshop on Web information and data management**
Publisher: ACM Press
Full text available: pdf(327.09 KB)　Additional Information: full citation, abstract, references, citings, index terms

In web classification, web pages from one or more web sites are assigned to pre-defined categories according to their content. Since web pages are more than just plain text documents, web classification methods have to consider using other context features of web pages, such as hyperlinks and HTML tags. In this paper, we propose the use of Support Vector Machine (SVM) classifiers to classify web pages using both their text and context feature sets. We have experimented our web classification met ...

Keywords: SVM, web classification, web mining

6 Translation of web queries using anchor text mining
Wen-Hsiang Lu, Lee-Feng Chien, Hsi-Jian Lee
June 2002 **ACM Transactions on Asian Language Information Processing (TALIP),**
Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(290.79 KB)　Additional Information: full citation, abstract, references, citings, index terms

This article presents an approach to automatically extracting translations of Web query terms through mining of Web anchor texts and link structures. One of the existing difficulties in cross-language information retrieval (CLIR) and Web search is the lack of appropriate translations of new terminology and proper names. The proposed approach successfully exploits the anchor-text resources and reduces the existing difficulties of query term translation. Many query terms that cannot be obtained in ...

Keywords: anchor text mining, comparable corpora, cross-language information retrieval, machine translation, parallel corpora, web mining

7   <u>Scalable feature selection, classification and signature generation for organizing</u>   ▨
     <u>large text databases into hierarchical topic taxonomies</u>
     Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan
     August 1998 **The VLDB Journal — The International Journal on Very Large Data**
             Bases, Volume 7 Issue 3
     Publisher: Springer-Verlag New York, Inc.
     Full text available: ▨ <u>pdf(281.37 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

> We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

8   <u>Multimedia and visualization: Dynamic structuring of web information for access</u>   ▨
◈   <u>visualization</u>
     Jess Y. S. Mak, Hong Va Leong, Alvin T. S. Chan
     March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
     Publisher: ACM Press
     Full text available: ▨ <u>pdf(765.23 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...

> **Keywords**: DOM, VRML, XML, visualization, web document structure

9   <u>Writing the web: Mining topic-specific concepts and definitions on the web</u>   ▨
◈   Bing Liu, Chee Wee Chin, Hwee Tou Ng
     May 2003 **Proceedings of the 12th international conference on World Wide Web**
     Publisher: ACM Press
     Full text available: ▨ <u>pdf(245.66 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> Traditionally, when one wants to learn about a particular topic, one reads a book or a survey paper. With the rapid expansion of the Web, learning in-depth knowledge about a topic from the Web is becoming increasingly important and popular. This is also due to the Web's convenience and its richness of information. In many cases, learning from the Web may even be essential because in our fast changing world, emerging topics appear constantly and rapidly. There is often not enough time for someone ...

> **Keywords**: definition mining, domain concept mining, information integration, knowledge compilation, web content mining

10   <u>Web-based simulation: Web-based simulation 3: re-introducing web-based simulation</u> ▨
     Steven W. Reichenthal
     December 2002 **Proceedings of the 34th conference on Winter simulation: exploring**
             new frontiers

Publisher: Winter Simulation Conference

Full text available: 📄 pdf(184.66 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper re-introduces web-based simulation from a web development point of view by first comparing the goals, structures, operations, and communication mechanisms on the web with those of current distributed simulation technology, and then synthesizing a new web-based simulation paradigm that more closely resembles the technology found on the web than Java-HLA solutions. The resulting paradigm is expressed through the Simulation Reference Markup Language (SRML) and Simulation Reference Sim ...

11 <u>Rank aggregation methods for the Web</u>

Cynthia Dwork, Ravi Kumar, Moni Naor, D. Sivakumar

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: 📄 pdf(288.25 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: metasearch, multi-word queries, rank aggregation, ranking functions, spam

12 <u>Open hypermedia and the web: The XML web: a first study</u>

Laurent Mignet, Denilson Barbosa, Pierangelo Veltri

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: 📄 pdf(726.59 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Although originally designed for large-scale electronic publishing, XML plays an increasingly important role in the exchange of data on the Web. In fact, it is expected that XML will become the lingua franca of the Web, eventually replacing HTML. Not surprisingly, there has been a great deal of interest on XML both in industry and in academia. Nevertheless, to date no comprehensive study on the XML Web (i.e., the subset of the Web made of XML documents only) nor on its contents has been made. Th ...

Keywords: XML documents, XML web, statistical analysis, structural properties

13 <u>Crawling: Accelerated focused crawling through online relevance feedback</u>

Soumen Chakrabarti, Kunal Punera, Mallela Subramanyam

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: 📄 pdf(589.82 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The organization of HTML into a tag tree structure, which is rendered by browsers as roughly rectangular regions with embedded text and HREF links, greatly helps surfers locate and click on links that best satisfy their information need. Can an automatic program emulate this human behavior and thereby learn to predict the relevance of an unseen HREF target page w.r.t. an information need, based on information limited to the HREF source page? Such a capability would be of great interest in focuse ...

Keywords: document object model, focused crawling, reinforcement learning

14 <u>Local versus global link information in the Web</u>

Pável Calado, Berthier Ribeiro-Neto, Nivio Ziviani, Edleno Moura, Ilmério Silva
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(413.06 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Information derived from the cross-references among the documents in a hyperlinked environment, usually referred to as link information, is considered important since it can be used to effectively improve document retrieval. Depending on the retrieval strategy, link information can be local or global. Local link information is derived from the set of documents returned as answers to the current user query. Global link information is derived from all the documents in the collection. In th ...

Keywords: Belief networks, World Wide Web, link analysis, local and global information

15 <u>Enhanced topic distillation using text, markup tags, and hyperlinks</u>
Soumen Chakrabarti, Mukul Joshi, Vivek Tawde
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press

Full text available: 📄 pdf(386.22 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Topic distillation is the analysis of hyperlink graph structure to identify mutually reinforcing authorities (popular pages) and hubs (comprehensive lists of links to authorities). Topic distillation is becoming common in Web search engines, but the best-known algorithms model the Web graph at a coarse grain, with whole pages as single nodes. Such models may lose vital details in the markup tag structure of the pages, and thus lead to a tightly linked irr ...

16 <u>Mining the network value of customers</u>
Pedro Domingos, Matt Richardson
August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press

Full text available: 📄 pdf(999.05 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

One of the major applications of data mining is in helping companies determine which potential customers to market to. If the expected profit from a customer is greater than the cost of marketing to her, the marketing action for that customer is executed. So far, work in this area has considered only the intrinsic value of the customer (i.e, the expected profit from sales to her). We propose to model also the customer's *network value:* the expected profit from sales to other customers she ...

Keywords: Markov random fields, collaborative filtering, dependency networks, direct marketing, social networks, viral marketing

17 <u>Link Analysis: Improvement of HITS-based algorithms on web documents</u>
Longzhuang Li, Yi Shang, Wei Zhang
May 2002 **Proceedings of the 11th international conference on World Wide Web**
Publisher: ACM Press

Full text available: 📄 pdf(214.35 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper, we present two ways to improve the precision of HITS-based algorithms on

Web documents. First, by analyzing the limitations of current HITS-based algorithms, we propose a new weighted HITS-based method that assigns appropriate weights to in-links of root documents. Then, we combine content analysis with HITS-based algorithms and study the effects of four representative relevance scoring methods, **VSM, Okapi, TLS,** and **CDR**, using a set of broad topic queries. Our experi ...

Keywords: HITS-based algorithms, information retrieval, relevance scoring methods

18 Cover story: structural Web search using a graph-based discovery system

Nitish Manocha, Diane J. Cook, Lawrence B. Holder
March 2001 **intelligence,** Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(194.01 KB)   Additional Information: full citation, references, citings, index terms
html(31.26 KB)

19 Evaluating topic-driven web crawlers

Filippo Menczer, Gautam Pant, Padmini Srinivasan, Miguel E. Ruiz
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press

Full text available: pdf(210.09 KB)   Additional Information: full citation, abstract, references, citings, index terms

Due to limited bandwidth, storage, and computational resources, and to the dynamic nature of the Web, search engines cannot index every Web page, and even the covered portion of the Web cannot be monitored continuously for changes. Therefore it is essential to develop effective crawling strategies to prioritize the pages to be indexed. The issue is even more important for topic-specific search engines, where crawlers must make additional decisions based on the relevance of visited pages. ...

Keywords: InfoSpiders, PageRank, Web information retrieval, best-first search, focused crawlers, performance metrics, topic driven crawling

20 Data integrity: Web application security assessment by fault injection and behavior monitoring

Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai
May 2003 **Proceedings of the 12th international conference on World Wide Web**
Publisher: ACM Press

Full text available: pdf(4.53 MB)   Additional Information: full citation, abstract, references, citings, index terms

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment, web application testing

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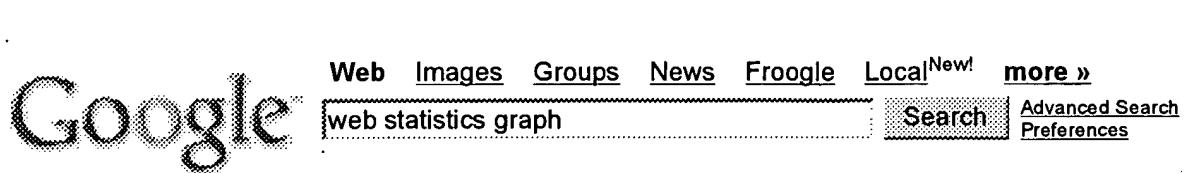intranetjournal.com/articles/200202/km_02_27_02a.html

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